

Elisa Yumi Nakagawa

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

904
citations

759233

12
h-index

677142

22
g-index

82
all docs

82
docs citations

82
times ranked

594
citing authors

#	ARTICLE	IF	CITATIONS
1	Architectural Support for Context-Aware Mobile Learning Applications. Education and Information Technologies, 2022, 27, 3723-3741.	5.7	1
2	Context aware mobile learning: A systematic mapping study. Education and Information Technologies, 2021, 26, 2033-2052.	5.7	5
3	An Investigation of Knowledge Gaps of Graduate Students Regarding Safety-Critical Systems Development: A Controlled Experiment. IEEE Transactions on Education, 2021, , 1-9.	2.4	0
4	Global and Latin American female participation in evidence-based software engineering: a systematic mapping study. Journal of the Brazilian Computer Society, 2021, 27, .	1.3	1
5	Towards dynamic processes-of-business processes: a new understanding. Business Process Management Journal, 2021, 27, 1545-1568.	4.2	6
6	Industry 4.0 reference architectures: State of the art and future trends. Computers and Industrial Engineering, 2021, 156, 107241.	6.3	74
7	Three decades of software reference architectures: A systematic mapping study. Journal of Systems and Software, 2021, 179, 111004.	4.5	9
8	Architecture Drivers for Trustworthy Interoperability in Industry 4.0. IEEE Systems Journal, 2021, 15, 5454-5463.	4.6	4
9	Ark: a constraint-based method for architectural synthesis of smart systems. Software and Systems Modeling, 2020, 19, 741-762.	2.7	1
10	Architectural Solutions for Self-Adaptive Systems. Computer, 2020, 53, 47-59.	1.1	2
11	Assessment of Reference Architectures and Reference Models for Ambient Assisted Living Systems. International Journal of E-Health and Medical Communications, 2020, 11, 17-36.	1.6	3
12	Software Architecture for Health Care Supportive Home Systems to Assist Patients with Diabetes Mellitus. , 2019, , .		3
13	A Reference Architecture to support the development of mobile applications based on self-adaptive services. Pervasive and Mobile Computing, 2019, 53, 33-48.	3.3	5
14	Software mediators as first-class entities of systems-of-systems software architectures. Journal of the Brazilian Computer Society, 2019, 25, .	1.3	6
15	A Typology of Architectural Strategies for Interoperability. , 2019, , .		7
16	A reference architecture for satellite control systems. Innovations in Systems and Software Engineering, 2019, 15, 139-153.	2.1	7
17	Evaluating variability at the software architecture level. , 2019, , .		3
18	A Systematic Identification of Formal and Semi-Formal Languages and Techniques for Software-Intensive Systems-of-Systems Requirements Modeling. IEEE Systems Journal, 2019, 13, 2201-2212.	4.6	10

#	ARTICLE	IF	CITATIONS
19	Conceptualization of a System-of-Systems in the Defense Domain: An Experience Report in the Brazilian Scenario. IEEE Systems Journal, 2019, 13, 2098-2107.	4.6	7
20	Software sustainability: Research and practice from a software architecture viewpoint. Journal of Systems and Software, 2018, 138, 174-188.	4.5	103
21	Enabling Continuous Software Engineering for Embedded Systems Architectures with Virtual Prototypes. Lecture Notes in Computer Science, 2018, , 115-130.	1.3	8
22	Towards a Taxonomy of Software Mediators for Systems-of-Systems. , 2018, , .		6
23	Model-based engineering & simulation of software-intensive systems-of-systems. , 2018, , .		6
24	Toward Architecture Knowledge Sustainability: Extending System Longevity. IEEE Software, 2017, 34, 108-111.	1.8	10
25	Investigating the effect of design patterns on energy consumption. Journal of Software: Evolution and Process, 2017, 29, e1851.	1.6	17
26	Software architecture and reference architecture of software-intensive systems and systems-of-systems. , 2017, , .		4
27	Two perspectives on reference architecture sustainability. , 2017, , .		8
28	Characterizing big data software architectures. , 2017, , .		12
29	Quality attributes and quality models for ambient assisted living software systems: A systematic mapping. Information and Software Technology, 2017, 82, 121-138.	4.4	48
30	Stimuli-SoS: a model-based approach to derive stimuli generators for simulations of systems-of-systems software architectures. Journal of the Brazilian Computer Society, 2017, 23, .	1.3	16
31	The Evolution of Design Pattern Grime: An Industrial Case Study. Lecture Notes in Computer Science, 2017, , 165-181.	1.3	10
32	A process to establish, model and validate missions of systems-of-systems in reference architectures. , 2017, , .		12
33	Exploring together software architecture and software testing: A systematic mapping. , 2016, , .		0
34	A Quality Model for AAL Software Systems. , 2016, , .		5
35	Checking the architectural feasibility of Systems-of-Systems using formal descriptions. , 2016, , .		22
36	Foreword: Towards Reference Architectures for Systems-of-Systems. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
37	A Systematic Literature Review on Knowledge Representation Approaches for Systems-of-Systems. , 2015, , .		8
38	A Comparative Analysis of Reference Architectures for Healthcare in the Ambient Assisted Living Domain. , 2015, , .		6
39	A Reference Model as Automated Process for Software Adaptation at Runtime. IEEE Latin America Transactions, 2015, 13, 214-221.	1.6	4
40	Investigating Quality Trade-offs in Open Source Critical Embedded Systems. , 2015, , .		9
41	3rd International Workshop on Software Engineering for Systems-of-Systems (SESoS 2015). , 2015, , .		0
42	A Reference Architecture for Healthcare Supportive Home Systems. , 2015, , .		3
43	OntolAD. , 2015, , .		5
44	A meta-process to construct software architectures for system of systems. , 2015, , .		2
45	A Framework Based on Learning Techniques for Decision-making in Self-adaptive Software. , 2015, , .		5
46	Reporting an Experience on the Establishment of a Quality Model for Systems-of-Systems. , 2015, , .		4
47	vrBPMN* and FM: An Approach to Model Business Process Line. Lecture Notes in Business Information Processing, 2015, , 130-141.	1.0	2
48	RoboSeT: A Tool to Support Cataloging and Discovery of Services for Service-Oriented Robotic Systems. Communications in Computer and Information Science, 2015, , 114-132.	0.5	0
49	Investigating the Model-Driven Development for Systems-of-Systems. , 2014, , .		9
50	Towards a conceptual model for Software-intensive System-of-Systems. , 2014, , .		12
51	A visual analysis approach to update systematic reviews. , 2014, , .		16
52	Variability viewpoint to describe reference architectures. , 2014, , .		4
53	Automating Cataloging and Discovery of Services for Service-Oriented Robotic Systems. , 2014, , .		2
54	Towards a Process to Design Architectures of Service-Oriented Robotic Systems. Lecture Notes in Computer Science, 2014, , 218-225.	1.3	1

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55	A Reference Architecture Based on Reflection for Self-Adaptive Software. , 2013, , .		9
56	Relevance and perspectives of AAL in Brazil. Journal of Systems and Software, 2013, 86, 985-996.	4.5	14
57	Towards a process to design product line architectures based on reference architectures. , 2013, , .		4
58	Perspectives and challenges of reference architectures in multi software product line. , 2013, , .		3
59	An investigation into the development of service-oriented robotic systems. , 2013, , .		8
60	Externalising tacit knowledge of the systematic review process. IET Software, 2013, 7, 298-307.	2.1	14
61	A knowledge-based framework for reference architectures. , 2012, , .		5
62	RAModel: A Reference Model for Reference Architectures. , 2012, , .		49
63	Reference architectures and variability. , 2012, , .		11
64	Architectural description of embedded systems. , 2012, , .		11
65	An Investigation into Agile Methods in Embedded Systems Development. Lecture Notes in Computer Science, 2012, , 576-591.	1.3	27
66	Supporting the analysis of bug prevalence in software product lines with product genealogy. , 2012, , .		3
67	Contributions and Perspectives in Architectures of Software Testing Environments. , 2011, , .		3
68	Towards the Open Source Reference Architectures. , 2011, , .		0
69	Exploring the use of reference architectures in the development of product line artifacts. , 2011, , .		8
70	Evaluation of AAL Platforms According to Architecture-Based Quality Attributes. Lecture Notes in Computer Science, 2011, , 264-274.	1.3	15
71	An aspect-oriented reference architecture for Software Engineering Environments. Journal of Systems and Software, 2011, 84, 1670-1684.	4.5	29
72	Proteum/AJ. , 2011, , .		11

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73	Reference Architecture and Product Line Architecture: A Subtle But Critical Difference. Lecture Notes in Computer Science, 2011, , 207-211.	1.3	42
74	A Service-Oriented Reference Architecture for Software Testing Tools. Lecture Notes in Computer Science, 2011, , 405-421.	1.3	7
75	Automating the mutation testing of aspect-oriented Java programs. , 2010, , .		27
76	Using systematic mapping to explore software architecture knowledge. , 2010, , .		5
77	Reference Models and Reference Architectures Based on Service-Oriented Architecture: A Systematic Review. Lecture Notes in Computer Science, 2010, , 360-367.	1.3	10
78	Exploring ontologies to support the establishment of reference architectures: An example on software testing. , 2009, , .		7
79	Software Architecture Relevance in Open Source Software Evolution: A Case Study. , 2008, , .		15
80	Architectural requirements as basis to quality of software engineering environments. IEEE Latin America Transactions, 2008, 6, 260-266.	1.6	2
81	BAYESIAN-LEARNING BASED GUIDELINES TO DETERMINE EQUIVALENT MUTANTS. International Journal of Software Engineering and Knowledge Engineering, 2002, 12, 675-689.	0.8	22